

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/065097 A2

- (51) International Patent Classification: Not classified (74) Agent: NEIFELD, Richard, A.; Neifeld IP Law, P.C., 4813-B Eisenhower Avenue, Alexandria, VA 22304 (US).
- (21) International Application Number: PCT/US2004/039777 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 22 December 2004 (22.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/530,987 22 December 2003 (22.12.2003) US (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): X2Y AT-TENUATORS, LLC [US/US]; 2730 B West 21st Street, Erie, PA 16506 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ANTHONY, David [US/US]; 3646 Fountain Way, Erie, PA 16506 (US). ANTHONY, Anthony [US/US]; 5064 Wolf Run Dr., Erie, PA 16505 (US). ANTHONY, William, M. [US/US]; 2642 West 35th Street, Erie, PA 16506 (US). MUCCIOLI, James [US/US]; 29222 Valley Bend Court, Farmington Hills, MI 48331 (US). NEIFELD, Richard, A. [US/US]; 2314 South Fern Street, Arlington, VA 22202 (US).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2005/065097 A2

(54) Title: INTERNALLY SHIELDED ENERGY CONDITIONER

(57) Abstract: An energy conditioner structure comprising a first electrode, a second electrode, and a shield structure provides improved energy conditioning in electrical circuits. The structures may exist as discrete components, as part of an interposer or a first level interconnects, or a part of an integrated circuit. The shield structure in the energy conditioner structure does not electrically connect to any circuit element.